

CLAIMS

What is claimed is:

1 1. A servo writer for writing servo information onto
2 a disk of a hard disk drive, comprising:

3 a housing with an inner chamber that can receive the
4 disk of the hard disk drive;

5 a circuit that writes servo information onto the disk;
6 and,

7 a medium control system that is coupled to said inner
8 chamber to create a fluid medium density within said inner
9 chamber to be less than a density of air at one atmosphere.

1 2. The servo writer of claim 1, wherein said medium
2 control system includes a pump to maintain a pressure of
3 said inner chamber below one atmosphere.

1 3. The servo writer of claim 1, wherein said medium
2 control system includes a source of helium that fills said
3 inner chamber with helium.

1 4. The servo writer of claim 1, further comprising a
2 spindle located within said inner chamber.

1 5. The servo writer of claim 1, wherein said housing
2 is located within a clean room.

1 6. A servo writer for writing servo information onto
2 a disk of a hard disk drive, comprising:

3 a housing with an inner chamber that can receive the
4 disk of the hard disk drive;

5 a circuit that writes servo information onto the disk;
6 and,

7 medium control means for creating a fluid medium
8 density within said inner chamber to be less than a density
9 of air at atmospheric pressure.

1 7. The servo writer of claim 6, wherein said medium
2 control means includes a pump to maintain a pressure of
3 said inner chamber below one atmosphere.

1 8. The servo writer of claim 6, wherein said medium
2 control means includes a source of helium that fills said
3 inner chamber with helium.

1 9. The servo writer of claim 6, further comprising a
2 spindle located within said inner chamber.

1 10. The servo writer of claim 6, wherein said housing
2 is located within a clean room.

1 11. A method for writing servo information onto a disk
2 of a hard disk drive, comprising:

3 placing a disk into a inner chamber of a housing;
4 creating a condition within the inner chamber so that a
5 density of a fluid medium in the inner chamber is less than
6 a density of air at one atmosphere; and,
7 writing servo information onto the disk.

1 12. The method of claim 11, wherein the condition is
2 created by pulling a vacuum within the inner chamber.

1 13. The method of claim 11, wherein the condition is
2 created by filling the inner chamber with helium.

1 14. The method of claim 11, wherein the disk is loaded
2 onto a spindle located within the inner chamber.

1 15. The method of claim 11, wherein the housing is
2 located within a clean room.

1 16. The method of claim 11, wherein a hard disk drive
2 that contains the disk is placed into the inner chamber.